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## NOTICE OF ALLOWANCE AND FEE(S) DUE

2292 7590 07/23/2008

BIRCH STEWART KOLASCH & BIRCH  
PO BOX 747  
FALLS CHURCH, VA 22040-0747

EXAMINER

QUARTERMAN, KEVIN J

ART UNIT

PAPER NUMBER

2889

DATE MAILED: 07/23/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/537,762

06/06/2005

Won-Duk Cho

2658-0356PUS1

5456

TITLE OF INVENTION: REAR PLATE FOR PLASMA DISPLAY PANEL

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	10/23/2008

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.**

**THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.**

### HOW TO REPLY TO THIS NOTICE:

#### I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**

# **PART B - FEE(S) TRANSMITTAL**

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE  
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

2292 7590 07/23/2008

**BIRCH STEWART KOLASCH & BIRCH  
PO BOX 747  
FALLS CHURCH, VA 22040-0747**

## **Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/537,762	06/06/2005	Won-Duk Cho	2658-0356PUS1	5456

TITLE OF INVENTION: REAR PLATE FOR PLASMA DISPLAY PANEL

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nonprovisional	NO	\$1440	\$300	\$0	\$1740	10/23/2008

EXAMINER	ART UNIT	CLASS-SUBCLASS
QUARTERMAN, KEVIN J	2889	313-582000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 \_\_\_\_\_
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 \_\_\_\_\_
- 3 \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature \_\_\_\_\_

Date \_\_\_\_\_

Typed or printed name \_\_\_\_\_

Registration No. \_\_\_\_\_

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/537,762	06/06/2005	Won-Duk Cho	2658-0356PUS1	5456
2292	7590	07/23/2008	EXAMINER	
BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747			QUARTERMAN, KEVIN J	
			ART UNIT	PAPER NUMBER
			2889	
DATE MAILED: 07/23/2008				

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 523 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 523 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

**Notice of Allowability**

Application No.

10/537,762

Applicant(s)

CHO, WON-DUK

Examiner

Kevin Quarterman

Art Unit

2889

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11 April 2008.
2. ☒ The allowed claim(s) is/are 1.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |  |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                      |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                    |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|  | 9. <input type="checkbox"/> Other _____.   |

## DETAILED ACTION

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.
2. Authorization for this examiner's amendment was given in a telephone interview with Kay Chang on 14 July 2008.
3. The application has been amended as follows: **In the claims** (only one claim):
  - i. In line 2 of the last paragraph of the claim: **delete** "of YOx, GdOx, Box, and EuOx" and **insert** --kinds of oxides selected from the group consisting of oxides Y, Gd, B, and Eu-- in its place.
  - ii. In line 4 of the last paragraph of the claim, **delete** "of ZnOx, SiOx, MnOx, YOx, Box, TbOx, BaOx, and AlOx" and **insert** --one kind of oxide selected from the group consisting of Zn, Si, Mn, Y, B, Tb, Ba, and Al-- in its place.
  - iii. In line 6 of the last paragraph of the claim, **delete** "of BaOx, MgOx, AlOx, SrOx, MnOx, and EuOx" and **insert** --kinds of oxides selected from the group consisting of oxides Ba, Mg, Al, Sr, Mn, and Eu-- in its place.

***Response to Amendment***

4. Applicant's amendment and remarks received 11 April 2008 have been entered and overcome the objections to the specification and claim 1 and also overcome the rejection under 35 USC § 112, second paragraph, that were recited in the previous office action mailed 11 January 2008.

5.

***Allowable Subject Matter***

6. Claim 1 is allowed.

7. The following is an examiner's statement of reasons for allowance: The Examiner indicated that independent claim 1 would be allowable if rewritten or amended to overcome the rejection(s) under 35 USC § 112, second paragraph. Now that applicant has overcome this rejection, the instant application is now in condition for allowance. The reasons are repeated in this office action.

8. The prior art of record neither shows or suggests a rear plate of a plasma display panel comprising a glass substrate; electrodes formed in a shape of patterns on an upper surface of the glass substrate; a dielectric layer formed on upper surfaces of the electrode and the upper surface of the glass substrate; barrier ribs formed in a shape of a pattern through etching on an upper surface of the dielectric layer; and phosphorous layers formed on side surfaces and bottom surfaces of the barrier ribs and including red, green, and blue phosphorous layers, which emit red, green, and blue light according to an electric signal, respectively, wherein: the electrodes are made from mixture of a conductive metal powder of 51 to 99.5 wt% and a first glass powder of 0.5 to 49 wt%,

the conductive metal powder being at least one kind of metal powder selected from metal powder of Au, Ag, Pt, Pd, Ni, and Cu, the conductive metal powder having an average particle diameter of 0.1 to 7 $\mu$ m, the first glass powder having an average particle diameter of 0.5 to 10 $\mu$ m and a specific resistance of  $1.0 \times 10^{-6}$  to  $5.0 \times 10^{-6} \Omega$ -cm; the dielectric layer is made from mixture of a first filler and at least one glass powder selected from among a second glass powder and a third glass powder, the second glass powder including PbO of 30 to 80 wt%, ZnO of 0 to 20 wt%, SiO<sub>2</sub> of 0 to 20 wt%, B<sub>2</sub>O<sub>3</sub> of 5 to 40 wt%, Al<sub>2</sub>O<sub>3</sub> of 0 to 12 wt%, Na<sub>2</sub>O+K<sub>2</sub>O+Li<sub>2</sub>O of 0 to 5 wt%, and BaO+CaO+MgO+SrO of 0 to 5 wt%, the third glass powder including Bi<sub>2</sub>O<sub>3</sub> of 36 to 84 wt%, B<sub>2</sub>O<sub>3</sub> of 5 to 28 wt%, PbO of 0 to 46 wt%, ZnO of 0 to 30 wt%, Al<sub>2</sub>O<sub>3</sub> of 0 to 13 wt%, SiO<sub>2</sub> of 0 to 10 wt%, Na<sub>2</sub>O+K<sub>2</sub>O+Li<sub>2</sub>O of 0 to 5 wt%, and BaO+CaO+MgO+SrO of 0 to 3 wt%, each of the second and third glass powders having an average particle diameter of 0.5 to 10 $\mu$ m, a softening temperature of 390 to 550 °C, a thermal expansive coefficient of  $63 \times 10^{-7}$  to  $83 \times 10^{-7}/^{\circ}\text{C}$ , a dielectric constant of 11 to 26, and an etching rate of 0.1 to 1.0 $\mu$ m/min, the first filler having an average particle diameter of 0.5 to 10 $\mu$ m and including at least one compound selected from the group consisting of TiO<sub>2</sub>, ZrO<sub>2</sub>, ZnO, Al<sub>2</sub>O<sub>3</sub>, SiO<sub>2</sub>, and MgO, which have white colors, or including BN, a ratio of volume of the first filler with respect to volume of the glass powder in the dielectric layer being 0.05 to 0.30, thereby the dielectric layer having a dielectric constant of 11 to 26, a reflectance of 50 to 80%, an etching rate of 0.1 to 1.0 $\mu$ m/min, and a porosity of 5, when the dielectric layer has been baked for 10 to 60 minutes at 450 to 600 °C; the barrier ribs are made from mixture which includes at least

one glass powder selected from the group consisting of a fourth, fifth, and sixth glass powders and at least one filler selected from the group consisting of a second filler and a third filler, the fourth glass powder including ZnO of 0 to 48 wt%, SiO<sub>2</sub> of 0 to 21 wt%, B<sub>2</sub>O<sub>3</sub> of 25 to 56 wt%, Al<sub>2</sub>O<sub>3</sub> of 0 to 12 wt%, Na<sub>2</sub>O+K<sub>2</sub>O+Li<sub>2</sub>O of 0 to 38 wt%, and BaO+CaO+MgO+SrO of 0 to 15 wt%, the fifth glass powder including PbO of 25 to 65 wt%, ZnO of 0 to 35 wt%, SiO<sub>2</sub> of 0 to 26 wt%, B<sub>2</sub>O<sub>3</sub> of 5 to 30 wt%, Al<sub>2</sub>O<sub>3</sub>+SnO<sub>2</sub> of 0 to 13 wt%, Na<sub>2</sub>O+K<sub>2</sub>O+Li<sub>2</sub>O of 0 to 19 wt%, BaO of 0 to 26 wt%, and CaO+MgO+SrO of 0 to 13 wt%, the sixth glass powder including PbO of 35 to 55 wt%, B<sub>2</sub>O<sub>3</sub> of 18 to 25 wt%, ZnO of 0 to 35 wt%, BaO of 0 to 16 wt%, SiO<sub>2</sub>+Al<sub>2</sub>O<sub>3</sub>+SnO<sub>2</sub> of 0 to 9 wt%, CoO+CuO+MnO<sub>2</sub>+Fe<sub>2</sub>O<sub>3</sub> of 0 to 15 wt%, Na<sub>2</sub>O+K<sub>2</sub>O+Li<sub>2</sub>O of 0 to 19 wt%, and CaO+MgO+SrO of 0 to 13 wt%, each of the fourth, fifth, and sixth glass powders having an average particle diameter of 0.5 to 10μm, a softening temperature of 390 to 630 °C, a thermal expansive coefficient of  $63 \times 10^{-7}$  to  $83 \times 10^{-7}/^{\circ}\text{C}$ , a dielectric constant of 5 to 20, and an etching rate of 2.0 to 50.0μm/min, the second filler including at least two oxides selected from the group consisting of NiO, Fe<sub>2</sub>O<sub>3</sub>, CrO, MnO<sub>2</sub>, CuO, Al<sub>2</sub>O<sub>3</sub>, and SiO<sub>2</sub>, which have dark colors, the third filler including at least one compound selected from the group consisting of TiO<sub>2</sub>, ZrO<sub>2</sub>, ZnO, Al<sub>2</sub>O<sub>3</sub>, SiO<sub>2</sub>, and MgO, which have white colors, or including BN, each of the second and third fillers having an average particle diameter of 0.1 to 10μm, a ratio of the volume of the filler with respect to the volume of the glass powder for the barrier ribs being 0.05 to 0.67, thereby the barrier ribs having a dielectric constant of 5 to 16 and an etching rate of 2 to 50μm/min and enabling the glass substrate having the barrier ribs to have a bending of at most 0.3 mm, when the



barrier ribs have been baked for 10 to 60 minutes at 450 to 600 °C, the barrier ribs having a height difference of at most 1% when the barrier ribs has been baked at 510°C for one hour after being etched by acid-based etching solution, the barrier ribs having a destruction ratio of 50% when an iron rod, which weighs 500g and has an end portion shaped like a sphere having a radius of 3 mm, is dropped one hundred times vertically onto uppermost surfaces of the barrier ribs from 5 mm above the uppermost surfaces, each of the barrier ribs having at least one layer; and the red phosphorous layer includes at least two kinds of oxides selected from the group consisting of oxides Y, Gd, B, and Eu, the green phosphorous layer includes at least one kind of oxide selected from the group consisting of oxides Zn, Si, Mn, Y, B, Tb, Ba, and Al, and the blue phosphorous layer comprises at least two kinds of oxides selected from the group consisting of oxides Ba, Mg, Al, Sr, Mn, and Eu, so that, in the phosphorous layers, color temperatures are maintained between 8,000K and 13,000K.

9. The closest prior art (Sakamoto) teaches barrier ribs comprised of several glasses and an inorganic filler but fails to exemplify a rear plate of a plasma display panel comprising each of the limitations recited above.

10. The subject rear plate described earlier is provided for improving voltage margin, power consumption, and electric efficiency in a PDP so that reliability is improved. The design is new and unique to the art.

11. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Quarterman whose telephone number is (571)272-2461. The examiner can normally be reached on M-TH (7-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Minh-Toan Ton can be reached on (571) 272-2303. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kevin Quarterman  
Examiner  
Art Unit 2889

*/Toan Ton/  
Supervisory Patent Examiner  
Art Unit 2889*

/K. Q./  
Examiner, Art Unit 2889  
24 July 2008